ABSTRACT

This invention relates to an integrated building control and information system with wireless networking, including the controlling and/or monitoring of various building devices or appliances such as air conditioning, lighting, temperature, humidity, etc., including practically any environmental condition or mechanical operation. Also, the invention relates to a system which includes a vendor tracking system comprising an industrial operator interface, with communication, local data processing, and data storage capabilities, which provide an efficient information resource for service and product control. Additionally, the invention relates to a system including a utility monitoring and/or control system to monitor and/or control the facilities utilities such as electricity, gas, water, steam, etc., through revenue and non-revenue rated metering devices, allowing real-time demand side utility management through the controlled equipment. Additionally, this invention incorporates a wireless interface, of any combination of sub-systems, to increase the coverage area to include remote locations, within a radius up to 10 miles, and/or large facilities which exceed the limitation of hard wired components, resulting in cost reductions for installation and maintenance. In facilities such as shopping malls, office buildings, commercial and industrial complexes, the consolidated central management of energy consumption, building equipment, lighting, environmental control, and vendor services provides a substantial savings and effective use of limited natural resources.